For Research Use Only

PARK2/Parkin Polyclonal antibody

Catalog Number:14060-1-AP Featured Product 352 Publications

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Basic Information

Catalog Number:
14060-1-AP

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5092

GenBank Accession Number:
BC022014

GeneID (NCBI):
5071

UNIPROT ID:
O60260

Full Name:
Parkinson disease (autosomal recessive, juvenile) 2, parkin

Calculated MW:
52 kDa

Observed MW:
42-52 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IHC: 1:50-1:500
IF-P: 1:50-1:500
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, rabbit, monkey, chicken, bovine, cattle, ducks

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : C6 cells, HEK-293 cells, mouse liver tissue, PC-12 cells

IHC : mouse kidney tissue,

IF-P : mouse heart tissue, mouse brain tissue

IF/ICC : RAW 264.7 cells,

Background Information

Parkin, a RING-type E3 ubiquitin-protein ligase, is involved in the ubiquitination pathway and contributes to protection from neurotoxicity induced by unfolded protein stresses. Its ubiquitin-protein ligase activity promotes the degradation of a variety of proteins including itself. Mutations in Parkin are implicated in the pathogenesis of autosomal recessive familial Parkinson's disease. It has 8 isoforms produced by alternative splicing with molecular weights of 24, 31, 36 and 42-52 kDa. Sometimes an additional band of 70 kDa or 110 kDa may be detected, which is caused by ubiquitination modification or formation of Parkin complex (PMID: 10976934, PMID: 18190519).

Notable Publications

Author	Pubmed ID	Journal	Application
Wu Xiuquan	34600073	Neuroscience	WB,IF
Xudong Yao	30273654	Pharmacol Res	WB
Ying Chen	36163342	Cell Death Dis	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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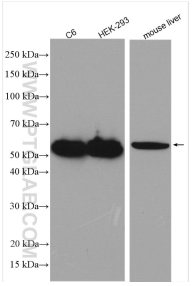
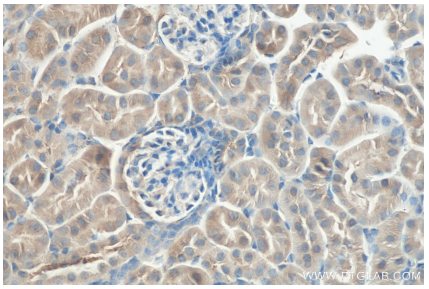
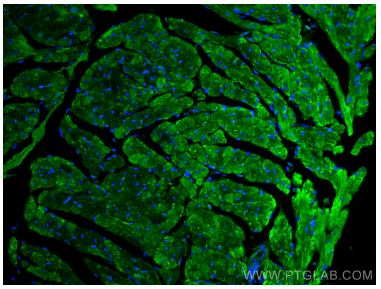
Selected Validation Data



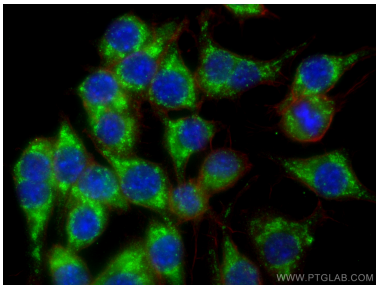
Various lysates were subjected to SDS PAGE followed by western blot with 14060-1-AP (PARK2/Parkin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 14060-1-AP (PARK2/Parkin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using PARK2/Parkin antibody (14060-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed RAW 264.7 cells using PARK2/Parkin antibody (14060-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).